

HOLGA 135-3D

3-DIMENSIONAL PICTURE CAMERA

OPERATION INSTRUCTIONS

Welcome to owning this special, one of a kind, 3D camera!

By making resemblance to the same principle in the capture of images by the human eyes, the two built-in lenses of the Holga 135-3D cameras will simultaneously capture two almost identical and yet different pictures which, through the use of specially designed viewing devices (optionally available separately), will enable the reproduction of the captured image in 3-dimensional photographic effects which approximate reality.

In addition, you can still take separate conventional 2D pictures one at a time with this camera.

With this 3D camera, you will cross the threshold to enter a total new world of fun and joy in taking pictures.

Enjoy!

1. Parts of the Camera

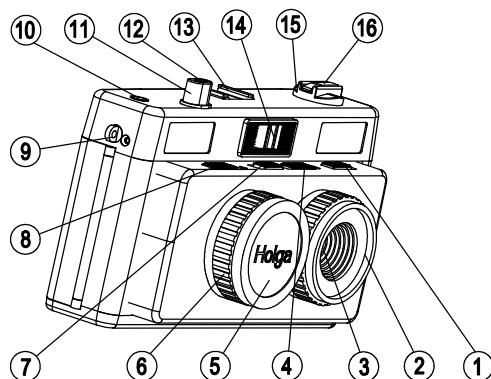


Fig. 1

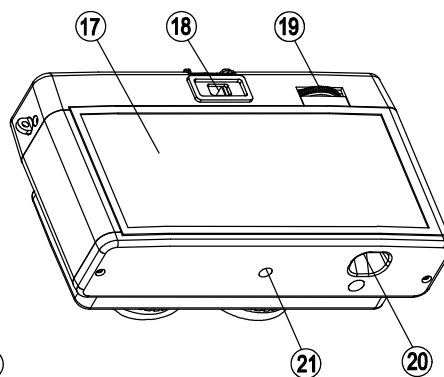


Fig. 2

(1)	B-Mode Selector 1	(12)	Socket for Shutter Release Cable
(2)	Focus Ring 1	(13)	Hot Shoe
(3)	Lens 1	(14)	View Finder
(4)	Aperture Selector 1	(15)	Film Rewind Knob
(5)	Lens Cap 2	(16)	Film Rewind Handle
(6)	Focus Ring 2	(17)	Back Cover
(7)	B-Mode Selector 2	(18)	View Finder Eyepiece
(8)	Aperture Selector 2	(19)	Film Advance Gear
(9)	Ring for Hand Strap	(20)	Film Release Button
(10)	Film Counter	(21)	Tripod Mounting Socket
(11)	Shutter Release Button		

2. Film to Use

The camera can accommodate all 135 format films. The use of films with exposure speed ASA 100 on sunny days and ASA 400 on cloudy days /indoor occasions is recommended.

3. Film Loading

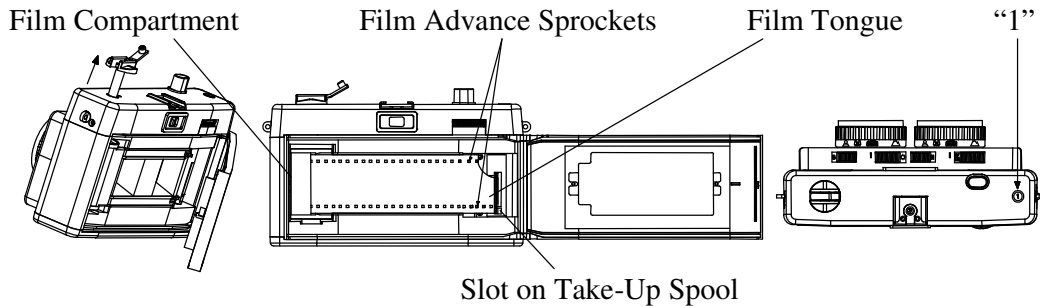


Fig. 3





Fig. 4

Fig. 5

- (a) Grab the Film Rewind Handle to pull up the Film Rewind Knob. - the latch for the Back Cover will be released and the Back Cover will pop open. (Fig. 3)
- (b) Insert a new film roll into the Film Compartment and push the Film Rewind Knob back to engage into the film roll. If the knob cannot be pushed back, turn it slowly until it can be done so.
- (c) Pull on the Film Tongue to pull out the film until the tip of the tongue reaches approximately, but not beyond, the hinge for the Back Cover.
- (d) Insert the tip of the Film Tongue into the slot on the Take-Up Spool. Press the film so that the tip of the film goes into the Take-Up Spool and the film becomes more or less flat. (Fig. 4)
- (e) Turn the Film Advance Gear slightly while adjusting the Film Advance Sprockets at the same time to enable the sprockets to engage into the holes on the two sides of the film.
- (f) Snap the Back Cover back into place.
- (g) Turn the Film Advance Knob to advance the film until it cannot turn any further and then press the Shutter Release Button.
- (h) Repeat (g) again until the number "1" appears in the Frame Counter (Fig. 5). The camera is now ready for taking pictures.

4. Focusing

Although this camera is basically a fixed focus camera, it still offers four choices of object distances. There are four symbols on the Focus Ring to make selection for the following object distances -

(a)		=	1m	or	3.25 ft.
(b)		=	2m	or	6.50 ft.
(c)		=	6m	or	20.00 ft
(d)		=	10m	or	33.00 ft. or more

More precise setting for object distances can be achieved by turning the Focus Ring to positions in between two symbols.

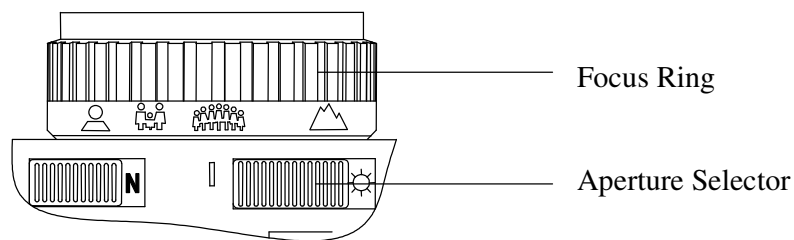


Fig. 6

5. Choice of Aperture

By setting the Aperture Selector (Fig. 6 above), two choices are available for selection as follows -

- (a) Sunny Symbol = f/11 for use on sunny days; and
- (b) Cloudy Symbol = f/8 for use on cloudy days.

6. Picture Taking

6.1. Taking 3D Pictures

- (a) Remove the covers of both lenses.
- (b) Set BOTH B-Mode Selectors 1 & 2 to the “N” position.
- (c) Set BOTH Aperture Selectors 1 & 2 according to the weather/environmental conditions :-
 - Sunny symbol for sunny outdoor occasions; and
 - Flash/Cloudy symbol for cloudy outdoor or insufficiently lit-up indoor occasions.
- (d) Estimate the object distance and turn BOTH Focus Rings 1 & 2 to set the object distance accordingly.

- (e) Look through the View Finder and compose the picture. Then press down the Shutter Release Button slowly to capture the image.
- (f) Turn the Film Advance Gear slowly until the next number appears in the Frame Counter.
- (g) The camera is now ready for taking the next picture.

IMPORTANT:

- (1) It is strongly recommended that, when taking 3D pictures, objects/sceneries at closer distances be chosen in order to generate the best effects.**
- (2) When taking 3D pictures, the Aperture Selector, B-Mode Selector and Focus Ring for both lenses must be set to the same position.**

6.2. Taking Conventional 2D Pictures

- (a) Remove Lens Cap 1. Leave the Lens Cap 2 on.
- (b) Set B-Mode Selector 1 to the “N” position.
- (c) Set Aperture Selector 1 according to the weather/environmental conditions :-
 - Sunny symbol for sunny outdoor occasions; and
 - Flash/Cloudy symbol for cloudy outdoor or insufficiently lit-up indoor occasions.
- (d) Estimate the object distance and turn Focus Ring 1 to set the object distance accordingly.
- (e) Look through the View Finder and compose the picture. Then press down the Shutter Release Button slowly to capture the image.
- (f) Put on Lens Cap 1 and remove Lens Cap 2.
- (g) Set B-Mode Selector 2 to the “N” position.
- (h) Set Aperture Selector 2 according to the weather/environmental conditions :-
 - Sunny symbol for sunny outdoor occasions; and
 - Flash/Cloudy symbol for cloudy outdoor or insufficiently lit-up indoor occasions.
- (i) Estimate the object distance and turn the Focus Ring 2 to set the object distance accordingly.
- (j) Look through the View Finder and compose the picture. Then press down the

Shutter Release Button slowly to capture the image.

- (k) Turn the Film Advance Gear slowly until the next number appears in the Frame Counter.
- (l) The camera is now ready for taking the next picture.

7. B-Mode (“Bulb” Mode)

When this mode is used, the shutter will be kept open for as long as the Shutter Release Button is depressed. This function is for taking pictures at nighttime or indoor by exposing for an extended period of time either to overcome the issue of insufficient lighting or bring about a sense of motion to certain object(s) in the image captured. The steps to be taken are as follows -

- (a) Mount the camera on the top of a tripod. This is necessary to avoid unnecessary movement of the camera, which can occur even due to the breathing action of the photographer, during the extended exposure.
- (b) Set the B-Mode Selector to the “B” position.
- (c) Push down the Shutter Release Button and keep it down for the time period desired. Then, release the button to close the shutter to complete the picture taking cycle.
- (d) Reset the B-Mode Selector to the normal “N” position when it is no longer needed to take pictures in this mode.

8. Use of Shutter Release Cable

When extended exposure time is needed, it is strongly recommended to always use a Shutter Release Cable (Model SC-30, available separately as an optional item) to depress the Shutter Release Button in order to avoid jerking the camera during exposure. To install the Shutter Release Cable, simply screw the screw-threaded end of the cable into the Socket for Shutter Release Cable.

9. Multiple-Exposure

This camera has the special feature of allowing the Shutter Release Button to be depressed again after a picture has been taken without the film being advanced first. With this feature, it becomes possible to create multiple images on the same film and this expands tremendously the room for creativity.

To achieve multiple exposure is very easy - simply do NOT advance the film after a picture has been taken.

10. Removal of Film

When a film roll is finished, take following steps to remove it from the camera -

- (a) To avoid inadvertent double-exposure of already taken pictures, put on the Lens Caps for protection first.
- (b) Push down the Film Rewind Release Button on the bottom of the camera. (Fig. 7)
- (c) Flip out the Film Rewind Handle and turn it in the direction of the arrow indicated on the handle (Fig. 8). A sense of tension would be felt when turning the handle to rewind the film. Keep turning the knob until the sense of tension disappears, which indicates that the whole film has already been rewound.
- (d) Pull out the Film Rewind Knob - the latch of the Back Cover will be released to let the Back Cover pop open. (Fig. 9)
- (e) Remove the rewound film roll from the Film Compartment.

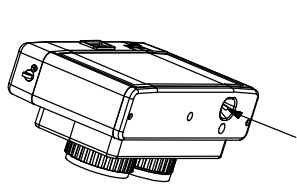


Fig. 7

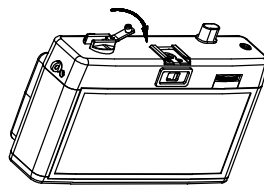


Fig. 8

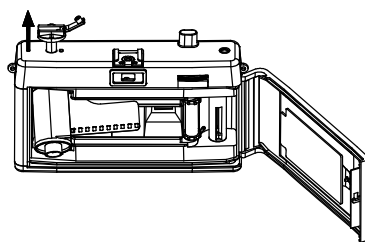


Fig. 9

11. Viewing of 3D Pictures Taken

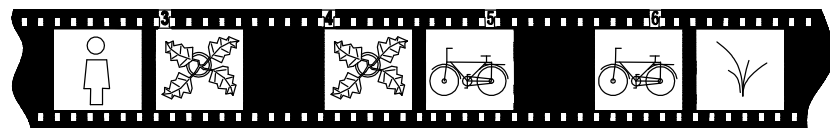
11.1 Slides

11.1.1 Preparation

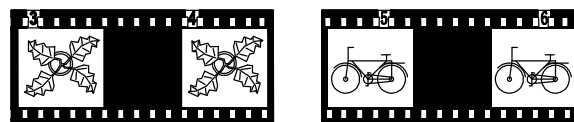
Special Slide Mounts, Model **HOLGA 135-3DSSM**, available separately as optional items are required to prepare the slides for viewing.

Take following steps to prepare the slides for viewing -

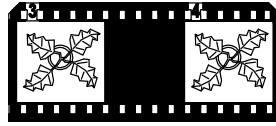
- (a) Have the slides developed. The pictures taken would appear in the following manner i.e. each pair of pictures would have a section of blank film in between themselves -



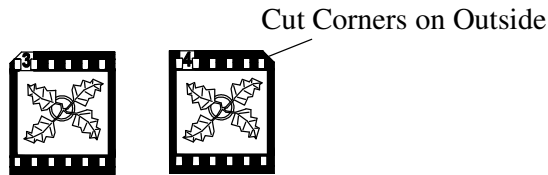
- (b) Cut out the film pairs as follows -



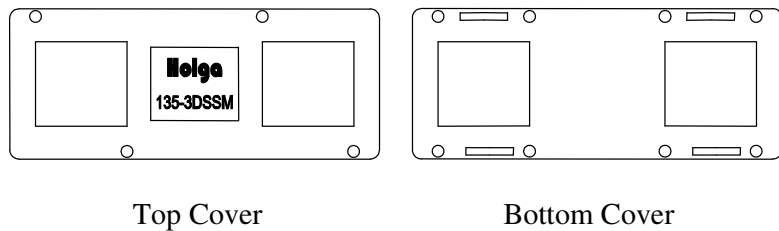
- (c) Cut away a smaller portion of the top corners of the outside edge of each picture -



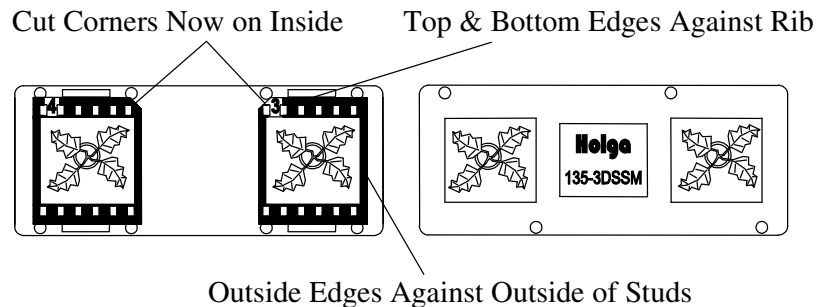
- (d) Cut away the section of blank film between the two pictures, leaving an edge of roughly a width equal to that of the edge on the other side.



- (e) Take a HOLGA 135-3DSSM Slide Mount and separate it into the Top and Bottom Covers -



- (f) Interchange the positions of the two pictures from (d) above, such that the edge with the cut corners are now on the inside, and put the two pictures in the positions on the Bottom Cover, aligned as illustrated below -

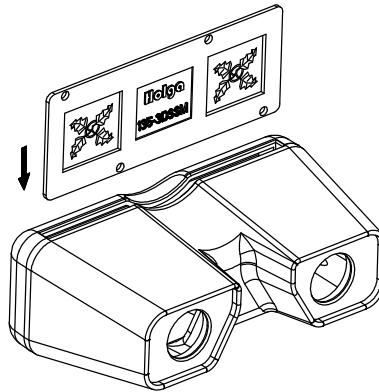


- (g) Snap on the Top Cover to keep the two picture slides in place.

11.1.2 Viewing

A special 3D Slide Viewer, Model **HOLGA 135-3DV**, available separately as an optional item, is needed to view the slides prepared. Insert the slides

prepared through above steps into the viewer and view -



11.2 Prints

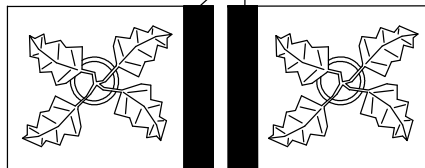
11.2.1 Preparation

Special Picture Mounts, Model **HOLGA 135-3DPM**, available separately as optional items are required to prepare the prints for viewing.

Take following steps to prepare the prints for viewing -

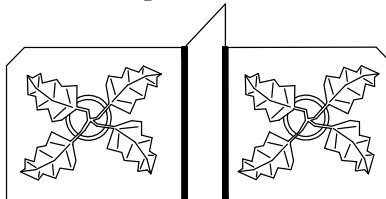
- (a) Have the film developed and the pictures printed in 2R size with white edges. Each of the two pictures taken as a pair will have a thick black strip along the “inside” edges as illustrated below -

Thick Black Strip on Inside Edges



- (b) Cut away a small portion of the top corner of the outside edge of each picture. Also cut away most part of the thick black strip of each picture, keeping only a narrow strip of about 2mm in width.

Keep Narrow Black Strip

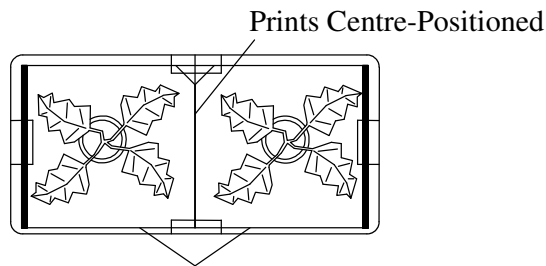


- (c) Take a Picture Mount HOLGA 135-3DPM. Interchange the left and right positions of the two prints from (b) above and put them on the Picture Mount as illustrated below such that -

- the cut-corners are now on the inside;

- the two prints are aligned along the centre line of the Print Mount;
and

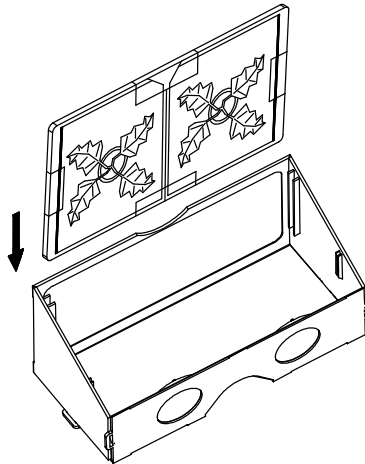
- the bottom edges of the two prints are aligning with the bottom edge of the Print Mount.



Bottom Edges of Prints Aligning with Bottom Edge of Print Mount

11.2.2 Viewing

A special 3D Print Viewer, Model **HOLGA 135-3DCV**, available separately as an optional item, is needed to view the prints prepared. Insert the pictures prepared through above steps into the viewer and view -



12. Use of Flash Light

In shaded environments or where light is sufficient, it is recommended to add a flash light. Simply slide the flash light into the Hot Shoe on the top of the camera.

A Holga flash light, Model Holga-15B is available for purchase separately as an optional item.

13. Some Suggestions

- (a) Always put on the Lens Cap when the camera is not in use.
- (b) Always check to see that the lens cap has been removed before taking a picture.
- (c) Always take pictures with the sun behind the camera.
- (d) Always hold the camera steadily. If possible, mount the camera on a tripod.
- (e) Always depress the Shutter Release Button gently, to avoid jerking, and all the way down until the clicking sound is heard.
- (f) Always advance the film until the next appropriate Frame Counter number appears in the Frame Counter Window after a picture is taken unless multiple-exposure is to be done.
- (g) Always use a flash when taking pictures in shades or dark locations.
- (h) Never take pictures with an object distance of less than one metre (3.25ft).
- (i) Always clean the lens only with a piece of soft and smooth cloth.

14. Specifications

Model	HOLGA 135-3D
Type	35mm film camera
Lens	Optical lens, f/8 47mm
Shutter Speed	1/100sec.
Film to be Used	135 format color or black/white film (the use of ASA 400/ISO 27 speed film is recommended)
View Finder	Eye level, centre-line positioned.
Focusing	Adjustable
Dimensions	165 x 66 x 98 mm
Weight	235g
Accessories Included	1 Carrying Hand-Strap